IN THE CLAIMS

Claim 1. (Currently Amended) A method for enabling multiple <u>Ouality of Service (QoS)</u> support over Frame Relay (FR) and Ethernet networks, the method comprising the steps of:

Identifying identifying a packet according to an Ethernet a first network protocol for servicing;

Determining determining a QoS metric for the identified packet; and

Based based upon the determined QoS metric, servicing the identified packet for transmission in accordance with a <u>Frame Relay second network</u> protocol.

- Claim 2. (Currently Amended) The A method as claimed in of claim 1, wherein the step of determining a QoS metric includes considering Ethernet information.
- Claim 3. (Currently Amended) The A method as elaimed in of claim 2, wherein the Ethernet information includes Ethernet port information.
- Claim 4. (Currently Amended) The A method as claimed in of claim 2, wherein the Ethernet information includes virtual local area network identifier (VLAN ID) information.
- Claim 5. (Currently Amended) The A method as claimed in of claim 2, wherein the Ethernet information includes p-bits information.
- Claim 6. (Currently Amended) The A method as elaimed in of claim 5, wherein the Ethernet information further includes VLAN ID information.
- Claim 7. (Currently Amended) The A method as claimed in of claim 5, wherein the step of servicing further includes assigning a drop precedence to the packet based on the p-bits information.
- Claim 8. (Currently Amended) The A method as claimed in of claim 1, wherein the step of determining a QoS metric includes considering Upper Layer Protocol (ULP) information.

Claim 9. (Currently Amended) The A method as claimed in of claim 8, wherein the ULP information includes Internet Protocol (IP) packet information

Claim 10. (Currently Amended) The A method as elaimed in of claim 9, wherein the IP packet information includes Differentiated Services Code Point (DSCP) bit information.

Claim 11. (Currently Amended) The A method as elaimed in of claim 10, wherein the IP packet information further includes VLAN ID information.

Claim 12. (Currently Amended) The A method as claimed in of claim 10, wherein the step of servicing further includes assigning a drop precedence to the packet based on the DSCP bit information.

Claim 13. (Currently Amended) A method as claimed in claim 1, wherein the first notwork protocol is FR, the second network protocol is Ethernet, and the step of determining a QoS metric includes A method for enabling multiple Quality of Service (QoS) support over Frame Relay (FR) and Ethernet networks, the method comprising the steps of:

identifying a packet according to a Frame Relay protocol for servicing;

determining a QoS metric for the identified packet by considering FR information; and
based upon the determined QoS metric, servicing the identified packet for transmission in
accordance with an Ethernet protocol.

Claim 14. (Currently Amended) The A method as claimed in of claim 13, wherein the FR information includes data link connection information.

Claim 15. (Currently Amended) The A method as-claimed in of claim 13, wherein the step of servicing further includes assigning a drop precedence to the packet based on discard eligible (DE) bit information.

Claim 16. (Currently Amended) The A method as claimed in of claim 1, wherein the first network protocol is Ethernet and the second network protocol is FR and the step of servicing includes mapping the packet to a Frame Relay Data Link Connections (DLC) DLC and scheduling the packet for transmission according to a sub-connection scheduling scheme.

Claim 17. (Currently Amended) <u>The A method as claimed in of claim 1,</u> wherein the first network protocol is Ethernet and the second network protocol is FR and the step of servicing includes mapping the packet to one of a plurality of <u>Frame Relay Data Link Connections (DLCs)</u> <u>DLC's</u> and scheduling the packet for transmission according to a connection scheduling scheme.

Claim 18. (Currently Amended) The A method as claimed in of claim 13. wherein the first network protocol is FR and the second network protocol is Ethernet and the step of servicing includes mapping the packet to an Ethernet port and scheduling the packet for transmission according to a class scheduling scheme.

Claim 19. (Currently Amended) The A method as claimed in of claim 13, wherein the first network protocol is FR and the second network protocol is Ethernet and the step of servicing includes mapping the packet to one of a plurality of Ethernet ports and scheduling the packet for transmission according to a basic scheduling scheme.

Claim 20. (Currently Amended) A system for enabling multiple Quality of Service (QoS) support over FR and Ethernet networks comprising:

an input; and

control circuitry associated with the input and adapted to:

identify a packet according to a first network an Ethernet protocol for servicing; determine a QoS metric for the identified packet; and

based upon the determined QoS metric, service the identified packet for transmission in accordance with a second-network Frame Relay protocol.

Claim 21. (Currently Amended) <u>The A system as claimed in of claim 21</u>, wherein the control circuitry is further adapted to consider Ethernet information to determine a QoS metric.

- Claim 22. (Currently Amended) <u>The A system as claimed in of claim 22</u>, wherein the Ethernet information further includes Ethernet port number information.
- Claim 23. (Currently Amended) The A system as claimed in of claim 22, wherein the Ethernet information further includes VLAN ID information.
- Claim 24. (Currently Amended) The A system as claimed in of claim 22, wherein the Ethernet information further includes p-bits information.
- Claim 25. (Currently Amended) The A system as claimed in of claim 25, wherein the Ethernet information further includes VLAN ID information.
- Claim 26. (Currently Amended) The A system as claimed in of claim 25, wherein the control circuitry is further adapted to assign a drop precedence to the packet based on the p-bits information.
- Claim 27. (Currently Amended) The A system as claimed in of claim 21, wherein the control circuitry is further adapted to consider Upper Layer Protocol (ULP) information to determine a QoS metric.
- Claim 28. (Currently Amended) The A system as claimed in of claim 28, wherein the ULP information includes Internet Protocol (IP) information.
- Claim 29. (Currently Amended) The A system as claimed in of claim 29, wherein the IP information includes Diff-Serv Differentiated Services Code Point (DSCP) bit information.
- Claim 30. (Currently Amended) The A system as claimed in of claim 3029, wherein IP information further includes virtual local network identifier (VLAN ID) information.

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Claim 31. (Currently Amended) The A system as claimed in of claim 30, wherein the control circuitry is further adapted to assign a drop precedence to the packet based on the DSCP bit information.

Claim 32. (Currently Amended) A system as claimed in claim 21 wherein the first network protocol is FR, the second network protocol is Ethernet, and wherein the control circuitry is further adapted to for enabling multiple Quality of Service (QoS) support over FR and Ethernet networks comprising:

an input; and

control circuitry associated with the input and adapted to:

identify a packet according to a Frame Relay protocol for servicing; consider FR information to determine a QoS metric for the identified packet; and based upon the determined QoS metric, service the identified packet for transmission in accordance with an Ethernet protocol.

Claim 33. (Currently Amended) The A system as claimed in of claim 33, wherein FR information includes data link connection information.

Claim 34. (Currently Amended) The A system as claimed in of claim 33, wherein the control circuitry is further adapted to assign a drop precedence based on DE bit information.

Claim 35. (Currently Amended) The A system as claimed in of claim 21, wherein the first network protocol is Ethernet and the second network protocol is FR and the control circuitry is further adapted to map the packet to a Frame Relay Data Link Connections (DLC) DLC and schedule the packet for transmission according to a sub-connection scheduling scheme to service the packet.

Claim 36. (Currently Amended) The A system as elaimed in of claim 21, wherein the first network protocol is Ethernet and the second network protocol is FR and the control circuitry is further adapted to map the packet to one of a plurality of Frame Relay Data Link Connections

(DLCs) DLC's and schedule the packet for transmission according to a connection scheduling scheme to service the packet.

Claim 37. (Currently Amended) The A system as claimed in of claim 2132, wherein the first network protocol is FR and the second network protocol is Ethernet and the control circuitry is further adapted to map the packet to an Ethernet port and schedule the packet for transmission according to a class scheduling scheme to service the packet.

Claim 38. (Currently Amended) The A system as claimed in of claim 2132, wherein the first network protocol is FR and the second network protocol is Ethernet and the control circuitry is further adapted to map the packet to one of a plurality of Ethernet ports and schedule the packet for transmission according to a basic scheduling scheme to service the packet.

Claim 39. (Currently Amended) The A system as claimed in of claim 21, wherein the system is located at an edge of a core network.

Claim 40. (Currently Amended) The A system as claimed in of claim 21, wherein the system is located in a user element.